



# VCD5000 Video Console Display

## MULTI-CHANNEL VIDEO DISPLAY AND USER INTERFACE

### Product Features

- Video Console Display Provides User Interface to an Entire System Without the Need for a PC
- Decodes up to 64 Streams of MPEG-4 Video at up to 30 ips per Stream (Model VCD5004)
- Video Output Options: NTSC/PAL Composite, NTSC/PAL S-Video, VGA (Maximum VGA Resolution: 1024 x 768)
- Scalable Number of Workstations and Video Inputs
- Customizable for Small to Enterprise Systems
- Provides Full Access to Operations through User-Friendly, Highly Intuitive, Semitransparent On-Screen Menus
- Heads-up Operation
- Multiple Display Views for Live or Playback Cameras or Devices

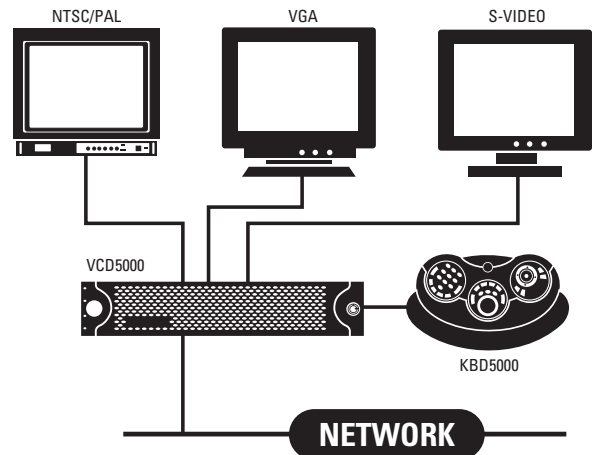


- EnduraView™ Technology Optimizes Video Display
- On-Screen PTZ, Device Property Controls, and Alarm Interface Displays
- Exports Video and Still Images in Multiple Formats, Including Pelco Native, QuickTime MPEG-4, PNG, BMP, and JPG

The **VCD5000** video console display is a high-performance, multiple stream decoding unit. Its main function is to convert multiple MPEG-4 streams into video signals to be viewed on a VGA or analog monitor. The VCD5000 also provides a user interface to the Endura system.

The system facilitates growth in two directions. To add workstations to accommodate multiple users, simply install additional **VCD5000s** and **KBD5000s**. To add monitors to decode additional video inputs without adding user workstations, install compatible four-channel decoders (**NET5301R**) to create a completely scalable virtual matrix.

Depending on the **VCD5000** model, up to 16, 32, 48, or 64 streams can be decoded and displayed simultaneously. Video can be displayed on NTSC/PAL composite, NTSC/PAL S-video, or VGA monitors. Every output option can display a single image, four images (2x2), nine images (3x3), or sixteen images (4x4). When multiple images are displayed, the patent-pending EnduraView™ technology automatically provides the best video display frame rate for the selected cameras.



The **VCD5000** provides a user interface to the Endura system. When used with the **KBD5000** keyboard, the **VCD5000** allows a user to operate the system like a traditional matrix, using the joystick, jog shuttle, and keypad to control the video display. The **VCD5000** also provides NVR-like functionality, allowing users to record, play back, and export video.

**IMPORTANT NOTE: PLEASE READ.** The network implementation is shown as a general representation only and is not intended to show a detailed network topology. Your actual network will differ, requiring changes or perhaps additional network equipment to accommodate the system as illustrated. Please contact your local Pelco Representative to discuss your specific requirements.

The **VCD5000** provides access to these functions through a graphical overlay on the monitor screen. The user may turn this overlay on and off with a single button push on the **KBD5000** keyboard. The overlays are semitransparent so as not to completely block the scene behind the menu. The simplified menu structure and corresponding **KBD5000** function buttons make it easy for even inexperienced users to operate the system.

*Endura distributed, network-based products are available only to certified dealers/integrators. Please contact your local sales representative for details on certification applications and requirements. Additional information on Endura products and certifications may be found at <http://www.pelco.com/endura>.*



# TECHNICAL SPECIFICATIONS

## MODEL NUMBERS

VCD5001	Video console display with one output card (handles up to 16 video streams)
VCD5002	Video console display with two output cards (handles up to 32 video streams)
VCD5003	Video console display with three output cards (handles up to 48 video streams)
VCD5004	Video console display with four output cards (handles up to 64 video streams)

## SUPPLIED ACCESSORIES

3 power cables (1 USA standard, 1 European standard, 1 UK standard)  
1 rack mounting kit (for mounting in 2 RU rack)  
1 resource CD

## SYSTEM

Processor	Intel® Pentium®4, 2.8 GHz
Operating System	Linux®
User Interface	Semitransparent on-screen overlays

## VIDEO

Video Standards	NTSC/PAL composite NTSC/PAL S-Video VGA (1024 x 768) 60 Hz capability for NTSC 75 Hz capability for PAL	
Video Decoding	MPEG-4	
Video Resolutions	<u>NTSC</u>	<u>PAL</u>
4CIF	704 x 480	704 x 576
2CIF	704 x 240	704 x 288
CIF	352 x 240	352 x 288
QCIF	176 x 120	176 x 144
Video Display Speed	Up to 30 images/second	
Video Display Modes	Single image, 2x2, 3x3, and 4x4	
Video Outputs	With each video output card: 1 BNC, NTSC/PAL, 75 ohms, 1 Vp-p 1 S-video, NTSC/PAL 1 VGA	

## AUDIO

Audio Decoding	G.711 speech codec
Audio Bit Rate	64 kbps
Audio Levels	Input: electret microphone Output: up to 3 Vp-p, adjustable, minimum load of 8 ohms
Audio Connectors	Three 3.5 mm stereo jacks
Connector Tip	Signal left (input and output)
Connector Ring	Signal right (input and output)
Connector Sleeve	Common
Audio Inputs	Microphone and line in
Audio Outputs	Speaker or line out

## PTZ CONTROL

PTZ Interface	On-screen or through KBD5000
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## NETWORK

Interface	Gigabit Ethernet RJ-45 port (1000BaseT)
Security	2 modes: secure mode (device authentication) and unsecure mode

## AUXILIARY INTERFACES

USB Ports	3 USB 2.0 ports (one front, two rear)
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## FRONT PANEL

Buttons	Power, configuration/reset
Indicators	Blue if power Yellow when activity Green when activity Green, amber, red Green, amber, red
Power	Blue if power Yellow when activity Green when activity Green, amber, red Green, amber, red

## POWER

Power Input	100-240 VAC, 50/60 Hz, autoranging
Power Supply	Internal
Power Consumption	136 watts, 465 BTU/H (maximum)
Cable Type	1 USA standard (117 VAC, 3 prongs, 6 ft or 1.8 m) 1 European standard (220 VAC, 3 prongs, molded connector, 6 ft or 1.8 m) 1 UK standard (250 VAC, 3 prongs, molded connector, 6 ft or 1.8 m)

## ENVIRONMENTAL

Operating Temperature	50° to 95°F (10° to 35°C)
Storage Temperature	-40° to 149°F (-40° to 65°C)
Operating Humidity	20% to 80%, noncondensing
Maximum Humidity Gradient	10% per hour
Operating Altitude	-50 ft to 10,000 ft (-16m to 3,048 m)
Operating Vibration	0.25G at 3 Hz to 200 Hz at a sweep rate of 0.5 octave/minimum

## PHYSICAL

Construction	Steel cabinet
Finish	Front panel: gray metallic with black end caps; chassis: black matte finish
Dimensions	17.0" D x 17.1" W x 3.5" H (43.2 x 43.4 x 8.9 cm)
Mounting	Desktop (feet) or rack 2 RU per unit, 1 RU between units
Unit Weight	28.8 lb (13.06 kg)
Shipping Weight	38 lb (17.24 kg)

## CERTIFICATIONS

- CE, Class A
- UL Listed
- UL Listed to Canadian safety standards
- FCC, Class A
- C-Tick

## OPTIONAL ACCESSORIES

KBD5000 Series	USB keyboard with joystick, jog shuttle, and keypad modules
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## STANDARDS/ORGANIZATIONS

- Pelco is a member of the MPEG-4 Industry Forum
- Pelco is a member of the Universal Plug and Play (UPnP) Forum
- Pelco is a member of the Universal Serial Bus (USB) Implementers Forum
- Pelco is a contributor to the International Standards for Organization/Electrotechnical Commission (ISO/IEC) Joint Technical Committee 1 (JTC1), "Information Technology," Subcommittee 29, Working Group 11
- Compliant with ISO/IEC 14496 standard (also known as MPEG-4)
- Compliant with International Telecommunication Union (ITU) Recommendation G.711, "Pulse Code Modulations (PCM) of Voice Frequencies."



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